International application No.
PCT/SG2004/000330

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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI, PCT, USPTO, internet (microarray, dna ohip, gene chip, IPC: G06T, image analysis, dilation, alignment, gridding, inspection, searner, automated, etc.) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant claim No A P. Bajscy, Gridline: Automatic Grid Alignment in DNA Microarray Scans IEEE Transactions on Image Processing, 13(1), pp. 15-25, January 2004 http://lalgdoos.nosa.nuivc.edu/PB-20040101-1.pdf A IF 1450 304 A1 (CITY UNIVERSITY OF HONG KONG), 25 August 2004 the whole document A T. Srinark et al, A Microarray Image Analysis System Based on Multiple-Snake Journal of Biological Systems, 12(4), December 2004 http://wins.is.udel.edu/publications/srinark-bioj04.pdf (section 2 in particular) A C. Ucharra et al, Towards Automatic Analysis of DNA Microarrays Proc. Sixth IEEE Workshop on Applications of Computer Vision, 2002 (section 2.2 in particular) X Further documents are listed in the continuation of Box C X See patent family annex **To document defining the general state of the art which is one condition of the special research of the sum with the international filing date or priority date and months of the continuation of the special research to considered to importation relevance **Pure document referring to an ord disclosure, use, chiblion or other special research of the sum that the principle or theory or other profity date chimsed Pure document referring to an ord disclosure, use, chiblion or other means **Pure document referring to an ord disclosure, use, chiblion or other special research as excitation or other special ressor (as s	Int. Cl. 7:	G06T 7/60, G06F 19/00					
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E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 MATTHEW HOLLINGWORTH Telephone No : (02) 6283 2024	PO BOX 200, E-mail address	WODEN ACT 2606, AUSTRALIA s; pct@ipaustralia.gov.au	MATTHEW HOLLINGWORTH Telephone No: (02) 6283 2024				

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х	WO 2002/004123 A1 (ROBODESIGN INTERNATIONAL, INC.), 17 January 2002 the whole document	22-26, 28			
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International application No.
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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international reasons:	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following
	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	DOUBLED BLOW SOURCE SO GROUPS AMERICAN SECTION
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such
· 	an extent that no meaningful international search can be carried out, specifically:
,	Claims Nos.:
3.	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. II	I Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
	ational Searching Authority found multiple inventions in this international application, as follows:
(See St	applemental box.)
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	n Protest
	X No protest accompanied the payment of additional search fees.

International application No.

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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to from a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are two inventions:

- 1. Claims 1-21, directed to a method for automatic inspection of a microarray slide. The use of a dilated image to calculate the orientation of the slide is considered to be a first "special technical feature."
- Claims 22-28, directed to a system for automatic inspection of a microarray slide. Prima facie, this
 invention does not appear to have any "special technical features," since it includes only well-known
 integers and well-known combinations of computing apparatus.

Since the abovementioned groups of claims do not share any technical features, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly, the international application does not relate to one invention or to a single inventive concept.

Information on patent family members

International application No.

PCT/SG2004/000330

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the
above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars
which are merely given for the purpose of information.
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Patent Document Cited in Search Report		•		Patent Family Member			
EP	1450304	NONE					
70	0204123	AU	71822/01	EP	1307291	US	6558623
		US	2004062686	wo	2004099937		
vo	2004017376				•		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

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